

# MQ335C — FLUORESCENT LAMP BALLASTS (SHIPMENTS AND PRODUCTION)

## DEFINITIONS AND SPECIAL INSTRUCTIONS

### 1. Scope of survey

This survey covers all companies engaged in the manufacture of fluorescent lamp ballasts in the United States.

### 2. Figures to be reported

Companies with more than one establishment manufacturing the products covered by this survey are requested to complete a separate report form for each location. If you have not received a separate form for each of your establishments, please call the contact shown on the report form or write to the U.S. Census Bureau for additional forms.

#### a. Quantity and value of shipments

The figures on quantity and value of shipments should include the physical shipments of all products sold, transferred to other establishments within your company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and returns. Shipments to your own branches should be assigned the same value as comparable sales to unaffiliated customers, i.e., the value includes an appropriate allocation of company overhead and profit. Products bought and resold without further manufacture should not be included in shipments.

Your figures on the quantity and value of fluorescent lamp ballasts shipments should

*include —*

Only ballasts manufactured in this plant during the quarter

*but exclude —*

Ballasts shipped without charge to replace defective or returned ballasts

Ballasts purchased by you for resale

Shipments of ballasts which have been incorporated into other products at this plant

#### b. Distribution of shipments by end use:

The TOTAL quantity and value figures for magnetic uncorrected ballasts (item code 1099), magnetic corrected ballasts (item code 1299), electronic uncorrected ballasts (item code 1318), and electronic corrected ballasts (item code 1399) should be subdivided by end use: quantity and value of shipments to original equipment manufacturers (OEM) and/or to distribution.

**OEM** includes shipments to customer's plants for incorporation or assembly into lighting fixtures or apparatus. Include shipments to depots and warehouses of the same or other companies where such shipments are for subsequent use in original equipment.

**Distribution** includes shipments to wholesale and retail distributors, dealers, jobbers, energy service companies, lighting maintenance companies, contractors, and "do-it-yourself" end users; and for "after market" replacement.

*Columns 3 and 4 —* Quantity and value of shipments to OEM

*Columns 5 and 6 —* Quantity and value of shipments to distribution

#### For item codes 1099, 1299, 1318, and 1399 only:

The quantity of shipments in column 1 should equal the sum of columns 3 and 5 for each total.

The value of shipments in column 2 should equal the sum of columns 4 and 6 for each total.

### 3. Definitions

*Include* all types of fluorescent ballasts, including resistance, inductance, and combinations of resistance, inductance, and capacitance.

Magnetic Type:

*Uncorrected-power-factor* — Less than 85% power factor

*Corrected-power-factor* — 85% power factor or above

Electronic Type:

*Uncorrected power factor* — less than 90% power factor

*Corrected power factor* — 90% power factor or above

*Rapid start* — Includes ballasts of all voltage and frequency ratings for operation of all lamps designed for cathode preheating without use of starters and also includes programmed-start ballasts.

*Preheat start* — Includes ballasts of all voltage and frequency rating for operation of all lamps of the switch start type except ballasts with preheat windings.

*Slimline and instant start* — Includes ballasts of all voltage and frequency ratings for operation of all hot cathode lamps which do not utilize preheating of cathodes.

*All other* — Includes ballasts of all voltage and frequency ratings not classified above. Specifically includes ballasts with preheat windings for fast starting of standard switch start lamps (Trigger Start, Quick Start, etc.), ballasts for D–C operation, and cold cathode ballasts.

### Electronic Fluorescent Ballast

Includes ballasts serving preheat or rapid start lamps, including those ballasts operating lamps less than 20 watts up to 40 watts, driving one, two, three or four lamps, and ballasts for 800mA lamps and above, and miscellaneous applications for powering fluorescent lamps not reported elsewhere.

Also includes ballasts for single-pin slimline, instant start lamps, including ballasts driving two 96-inch lamps, and all other slimline lamp ballasts.

### Abbreviations and Metric Conversions

mA	Milliampere
1KHZ	1000 cycles per second
KhZ	Kilohertz

### 4. Comparability

If you also report in the Annual Survey of Manufactures (Form MA-10000), the sum of values for item codes shown in column (a) should correspond to the dollar values reported under product class codes indicated in column (b) below:

Current Industrial Reports (Form MQ335C)	Annual Survey of Manufactures
Item codes (a)	Product class codes (b)
1015 through 1035 1210 through 1245 1310 through 1315 1320 through 1380	3353115

# REFERENCE LIST

FORM **MQ335C**

## FLUORESCENT LAMP BALLASTS (SHIPMENTS AND PRODUCTION)

Product code	Item code	Item description
		<b>MAGNETIC TYPE</b>
		<b>UNCORRECTED POWER-FACTOR TYPE</b>
		(Less than 85 percent power factor)
		Preheat start:
3353115103	<b>1015</b>	Single-ended compact lamps
3353115105	<b>1020</b>	Linear and circline lamps up to and including 20 watts
3353115107	<b>1025</b>	Linear and circline lamps 21 watts and over
3353115109	<b>1035</b>	All other magnetic uncorrected power-factor type, including rapid start
<b>XXX</b>	<b>1099</b>	<b>TOTAL MAGNETIC UNCORRECTED POWER-FACTOR TYPE</b>
		<b>CORRECTED POWER-FACTOR TYPE</b>
		(85 percent power factor or above)
		Slimline and instant start:
3353115111	<b>1210</b>	Two-lamp, 75W/96T12/IS and 57W/72T12/IS
3353115113	<b>1215</b>	Other slimline and instant start
		Rapid start:
3353115115	<b>1217</b>	One-lamp, 40W/48T12/RS
3353115117	<b>1220</b>	Two-lamp, 40W/48T12/RS
3353115119	<b>1221</b>	Two-lamp, 32W/48T8/RS
		All other rapid start:
3353115121	<b>1222</b>	800 to 1000 mA
3353115123	<b>1224</b>	1500 mA
3353115125	<b>1226</b>	Other rapid start
		Preheat start:
3353115127	<b>1235</b>	Single-ended compact lamps
3353115129	<b>1240</b>	Linear and circline lamps
3353115131	<b>1245</b>	All other magnetic corrected power-factor type
<b>XXX</b>	<b>1299</b>	<b>TOTAL MAGNETIC CORRECTED POWER-FACTOR TYPE</b>
		<b>ELECTRONIC TYPE</b>
		<b>UNCORRECTED POWER-FACTOR TYPE</b>
		(Less than 90 percent power factor)
3353115133	<b>1310</b>	Single-ended compact lamps
3353115135	<b>1315</b>	All other electronic uncorrected power-factor type
<b>XXX</b>	<b>1318</b>	<b>TOTAL ELECTRONIC UNCORRECTED POWER-FACTOR TYPE</b>
		<b>CORRECTED POWER-FACTOR TYPE</b>
		(90 percent power factor or above)
		Instant start:
3353115137	<b>1320</b>	One- and two-lamp, 32W/48T8
3353115139	<b>1325</b>	Three- and four-lamp, 32W/48T8
3353115141	<b>1330</b>	Two-lamp, 59W/96T8
3353115143	<b>1335</b>	Two-lamp, 75W/96T12/IS
3353115144	<b>1337</b>	Linear T5
3353115145	<b>1340</b>	All other instant start
		Rapid start, program start
3353115147	<b>1345</b>	All 32W/48T8
3353115149	<b>1350</b>	All other T8, four foot and less
3353115151	<b>1355</b>	Two-lamp, 40W/48T12/RS
3353115153	<b>1360</b>	800 mA
3353115154	<b>1362</b>	Compact fluorescent up to and including 26W
3353115156	<b>1364</b>	Compact fluorescent 27W and over
3353115158	<b>1366</b>	Linear T5, normal output
3353115160	<b>1368</b>	Linear T5, high output
3353115162	<b>1371</b>	Dimming, linear
3353115164	<b>1373</b>	Dimming, compact fluorescent
3353115166	<b>1375</b>	All other rapid start
3353115168	<b>1380</b>	All other electronic corrected power-factor type
<b>XXX</b>	<b>1399</b>	<b>TOTAL ELECTRONIC CORRECTED POWER-FACTOR TYPE</b>